STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

APPLICATION OF READ & STEVENS, INC. FOR CREATION OF A SPECIAL IN SECTIONS 4, 5, 8 AND 9 IN TOWNSHIP 20 SOUTH, RANGE 34 EAST, NMPM LEA COUNTY, NEW MEXICO

Case No. 24528

APPLICATION OF CIMAREX EXERGY CO. FOR THE CREATION OF A SPECIAL POOL, A WOLFBONE POOL, PURSUANT TO ORDER NO. R-23089 AND TO REOPEN CASE NOS. 23448 – 23455, 23594 – 23601, AND 23508 – 23523, LEA COUNTY, NEW MEXICO

Case No. 24541

NOTICE OF CIMAREX'S REBUTTAL EXHIBITS

Cimarex Energy Co., applicant in Case No. 24541, gives notice of the filing of the attached rebuttal exhibits for acceptance into the record.

Exhibits F-9R through F-11R, G-7R, and I-14R through I-18R are rebuttal exhibits.

Respectfully submitted,

ABADIE & SCHILL, PC

/s/ Darin C. Savage

Darin C. Savage

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Attorneys for Cimarex Energy Co.

CERTIFICATE OF SERVICE

I hereby certify that a true and correct copy of the foregoing was filed with the New Mexico Oil Conservation Division and was served on counsel of record via electronic mail on August 12, 2024:

Michael H. Feldewert – mfeldewert@hollandhart.com Adam G. Rankin – agrankin@hollandhart.com Paula M. Vance – pmvance@hollandhart.com Attorneys for Read & Stevens, Inc.; and Permian Resources Operating, LLC

Blake C. Jones – blake.jones@steptoe-johnson.com *Attorney for Northern Oil and Gas, Inc.*

James Bruce -- jamesbruc@aol.com
Attorneys for MRC Permian Company;
and Foran Oil Company

/s/ Darin C. Savage

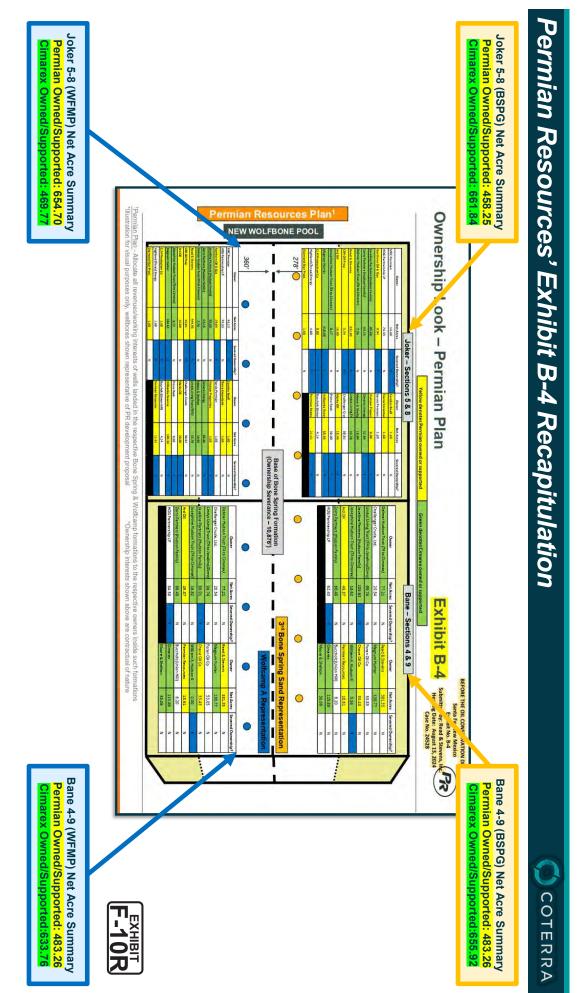
Darin C. Savage

Owned and Supported Net Acres Majority Interest in Permian Resources' Joker 5-8 Wells

Released to Imaging: 8/12/202	*7/2024 Title Opinions F-9R *Status is of best knowledge	T. X						
24 4	9/24 Permian Resources Proration Units	PR Total						
:34	15/24 Permian Resources Proration Units	XEC Total						
1:4	Permian Resources	38.297%	122.585	44.015%	140.887	E/2E/2	Wolfcamp XY	204H
2 P	Permian Resources	38.297%	122.575	44.016%	140.877	W/2 E/2	Wolfcamp XY	203H
M	Permian Resources	38.298%	122.568	44.016%	140.870	E/2 W/2	Wolfcamp XY	202H
	Permian Resources	29.958%	95.867	59.316%	189.817	W/2W/2	Wolfcamp XY	201H
	Cimarex	57.430%	183.827	31.097%	99.538	E/2E/2	3rd Bone Spring	134H
	Cimarex	57.428%	183.804	31.099%	99.535	W/2 E/2	3rd Bone Spring	133H
	Cimarex	46.485%	148.771	37.207%	119.079	E/2 W/2	3rd Bone Spring	132H
	Permian Resources	38.146%	122.070	51.506%	164.826	W/2W/2	3rd Bone Spring	131H
	Cimarex	57.430%	183.827	31.097%	99.538	E/2 E/2	Upper 3rd Bone Spring	174H
	Cimarex	57.428%	183.804	31.099%	99.535	W/2 E/2	Upper 3rd Bone Spring	173H
	Cimarex	46.485%	148.771	37.207%	119.079	E/2 W/2	Upper 3rd Bone Spring	172H
	Permian Resources	38.146%	122.070	51.506%	164.826	W/2W/2	Upper 3rd Bone Spring	171H
	Cimarex	57.430%	183.827	31.097%	99.538	E/2E/2	Lower 2nd Bone Spring	128H
	Cimarex	57.430%	183.827	31.097%	99.538	E/2 E/2	Upper 2nd Bone Spring	127H
	Cimarex	57.428%	183.804	31.099%	99.535	W/2 E/2	Lower 2nd Bone Spring	126H
	Cimarex	57.428%	183.804	31.099%	99.535	W/2 E/2	Upper 2nd Bone Spring	125H
	Cimarex	46.485%	148.771	37.207%	119.079	E/2 W/2	Lower 2nd Bone Spring	124H
	Cimarex	46.485%	148.771	37.207%	119.079	E/2 W/2	Upper 2nd Bone Spring	123H
	Permian Resources	38.146%	122.070	51.506%	164.826	W/2W/2	Lower 2nd Bone Spring	122H
	Permian Resources	38.146%	122.070	51.506%	164.826	W/2W/2	Upper 2nd Bone Spring	121H
	Cimarex	57.430%	183.827	31.097%	99.538	E/2E/2	1st Bone Spring	114H
	Cimarex	57.428%	183.804	31.099%	99.535	W/2 E/2	1st Bone Spring	113H
	Cimarex	46.485%	148.771	37.207%	119.079	E/2 W/2	1st Bone Spring	112H
	Permian Resources	38.146%	122.070	51.506%	164.826	W/2W/2	1st Bone Spring	111H
	Operator with Majority Interest	% of Proration Unit (XEC)	Supported Net Acres	% of Proration Unit (PR)	PR Owned and Supported Net Acres	Spacing Units (5 & 8)	Formation/Interval	Joker 5-8 Fed Com Well Number
-		:		: :: ::				

Owned and Supported Net Acres Majority Interest in Permian Resources' Bane 4-9 Wells

			204H	203H	202H	201H	134H 3	133H 3	132H 3	131H :		173H Upp	172H Upp	171H Upp	128H Low	127H Upp	126H Low	125H Upp				121H Upp	114H	113H :	112H :		Well Number Fo
			Wolfcamp XY	Wolfcamp XY	Wolfcamp XY	Wolfcamp XY	3rd Bone Spring	3rd Bone Spring	3rd Bone Spring	3rd Bone Spring	Upper 3rd Bone Spring	Lower 2nd Bone Spring	Upper 2nd Bone Spring	Lower 2nd Bone Spring	Upper 2nd Bone Spring	Lower 2nd Bone Spring	Upper 2nd Bone Spring	Lower 2nd Bone Spring	Upper 2nd Bone Spring	1st Bone Spring	1st Bone Spring	1st Bone Spring	1st Bone Spring	Formation/Interval			
			E/2 E/2	W/2 E/2	E/2W/2	W/2 W/2	E/2 E/2	W/2 E/2	E/2 W/2	W/2 W/2	E/2 E/2	W/2 E/2	E/2 W/2	W/2 W/2	E/2 E/2	E/2 E/2	W/2E/2	W/2E/2	E/2 W/2	E/2 W/2	W/2 W/2	W/2 W/2	E/2E/2	W/2 E/2	E/2 W/2	W/2W/2	Spacing Units (4 & 9)
			119.386	111.635	124.057	124.034	103.931	103.908	100.875	100.852	103.931	103.908	100.875	100.852	103.931	103.931	103.908	103.908	100.875	100.875	100.852	100.852	103.931	103.908	100.875	100.852	Supported Net Acres
			37.205%	34.814%	38.715%	38.735%	32.388%	32.404%	31.480%	31.495%	32.388%	32.404%	31.480%	31.495%	32.388%	32.388%	32.404%	32.404%	31.480%	31.480%	31.495%	31.495%	32.388%	32.404%	31.480%	31.495%	(PR)
			168.312	176.868	158.020	157.842	185.780	185.603	184.223	184.045	185.780	185.603	184.223	184.045	185.780	185.780	185.603	185.603	184.223	184.223	184.045	184.045	185.780	185.603	184.223	184.045	Supported Net Acres
	PR Total	XEC Total	52.452%	55.158%	49.313%	49.293%	57.895%	57.881%	57.491%	57.476%	57.895%	57.881%	57.491%	57.476%	57.895%	57.895%	57.881%	57.881%	57.491%	57.491%	57.476%	57.476%	57.895%	57.881%	57.491%	57.476%	(XEC)
*7/2024 Title Opinions *Status is of best knowledge	0/24 Permian Resources Proration Units	24/24 Permian Resources Proration Units	Cimarex	Cimarex	Cimarex	Cimarex	Cimarex	Cimarex	Cimarex	Cimarex	Cimarex	Cimarex	Cimarex	Cimarex	Cimarex	Cimarex	Cimarex	Cimarex	Cimarex	Cimarex	Cimarex	Cimarex	Cimarex	Cimarex	Cimarex	Cimarex	operator with Majority interest
wiedge pinions leased to Imaging: 8/12/2	024		:34	:42	2 P	M																					<u></u>



Bella Sikes

From: Staci Sanders <stacis@mec.com>
Sent: Wednesday, May 29, 2024 10:59 AM

To: Bella Sikes
Cc: Morgan Buckles

Subject: [EXTERNAL] RE: Cimarex's Proposed Mighty Pheasant/Loosey Goosey Development

Follow Up Flag: Follow up Flag Status: Completed

WARNING: This email originated from outside of Coterra Energy. Do not click links or open attachments unless you recognize the sender, are expecting the content and know it is safe.

Bella,

I'm sorry for the delay in getting back to you. Chase Oil Corporation will participate and support whoever is appointed operator and chooses to remain neutral in the ongoing fight with Read & Stevens/Permian Resources. Chase Oil Corporation can sign AFE's again if needed, but will do the same with R&S/Permian.

Please do not hesitate to contact me if you have any questions.

Thanks!

Staci Sanders

Land Manager Chase Oil Corporation 575-748-1288 Phone 575-748-7374 Fax stacis@mec.com

From: Morgan Buckles < Morgan Buckles@mec.com>

Sent: Wednesday, May 8, 2024 8:13 AM To: Staci Sanders <stacis@mec.com>

Subject: FW: Cimarex's Proposed Mighty Pheasant/Loosey Goosey Development

From: Bella Sikes < Bella.Sikes@coterra.com > Sent: Wednesday, May 8, 2024 6:51 AM
To: Morgan Buckles < MorganBuckles@mec.com >

Subject: RE: Cimarex's Proposed Mighty Pheasant/Loosey Goosey Development

F-11R

EXTERNAL EMAIL - Verify the sender and use caution before opening attachments or clicking links

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

APPLICATION OF CIMAREX EXERGY CO. FOR THE CREATION OF A SPECIAL POOL, A WOLFBONE POOL, PURSUANT TO ORDER NO. R-23089 AND TO REOPEN CASE NOS. 23448 – 23455, 23594 – 23601, AND 23508 – 23523, LEA COUNTY, NEW MEXICO

Case No. 24541

REBUTTAL EXHIBIT G-7R WITH EXPLANATION BY STACI MUELLER

I, Staci Mueller, state and affirm the following:

I am over the age of 18, and I have personal knowledge of the matters stated herein. I am employed as a petroleum geologist for Cimarex Energy Co. ("Cimarex"), and I am familiar with the subject application and the geology involved. I have testified previously before the Oil Conservation Division as an expert petroleum geologist.

Permian Resources Operating, LLC ("Permian Resources") sent working interest owners a letter that describes its development plan. A copy of this letter has been provided by Cimarex as Exhibit F-2.1 That letter included a visual depiction of its development plan attached as Exhibit B. Rebuttal Exhibit G-7R attached hereto shows Permian Resources' Exhibit B in relation to the actual positioning of the targets. Their Exhibit B is a misrepresentation of the Bone Spring and Wolfcamp targets, as the scale is incorrect on this cartoon. Members of Cimarex's team that read Permian Resources' letter to the working interest owners and saw this cartoon questioned whether they were changing their target to the Wolfcamp A Shale because of the misrepresentation. So, to clarify, I have taken Permian Resources' type logs from their Exhibit E-4, in Permian Resources' Hearing Packet from the original hearing and aligned the top and base of the new Wolfbone Pool with the gunbarrel view. According to the gunbarrel view, the wells would be landed approximately 45' higher in the 3rd Bone Spring Sand and about 60 feet lower in

EXHIBIT G-7R

the Wolfcamp A Shale. These targets are incorrect. In reality, Permian Resources is targeting the basal 3rd Bone Spring Sand, where I have drawn a dashed green line, and the Wolfcamp Y Sand, where I have drawn a dashed blue line. So, instead of staggering their Bone Spring and Wolfcamp targets approximately 200 feet like the cartoon shows, the stagger is actually about 95 feet. Neither Permian Resources nor Cimarex is targeting the Wolfcamp A Shale because the reservoir is located in the high porosity sands, predominantly in the 3rd Sand. I understand that this explanation will be used as written testimony before the Division in Case No. 24541 and affirm that my testimony herein is true and correct, to the best of my knowledge and belief and made under penalty of perjury under the laws of the State of New Mexico.

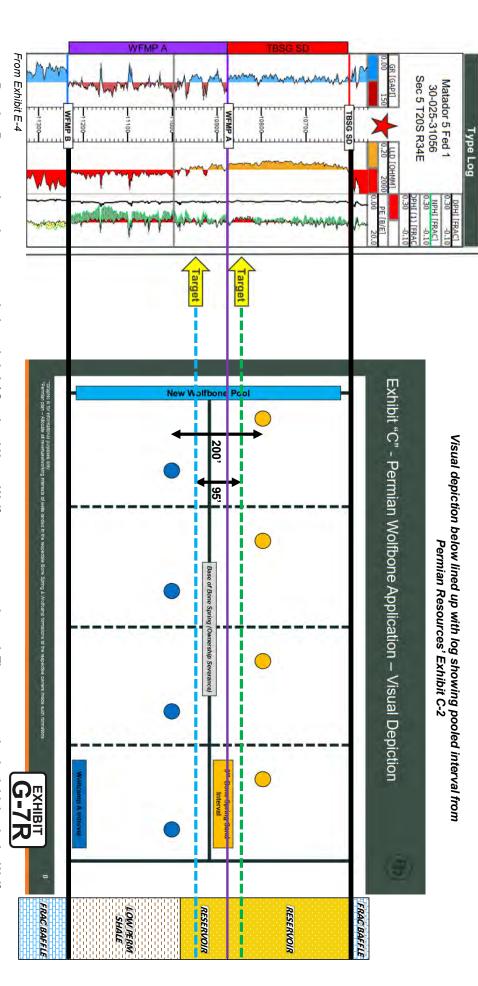
STACIMUELLER

1 . 1

Date Signed

Scale of Visual Depiction is Misleading



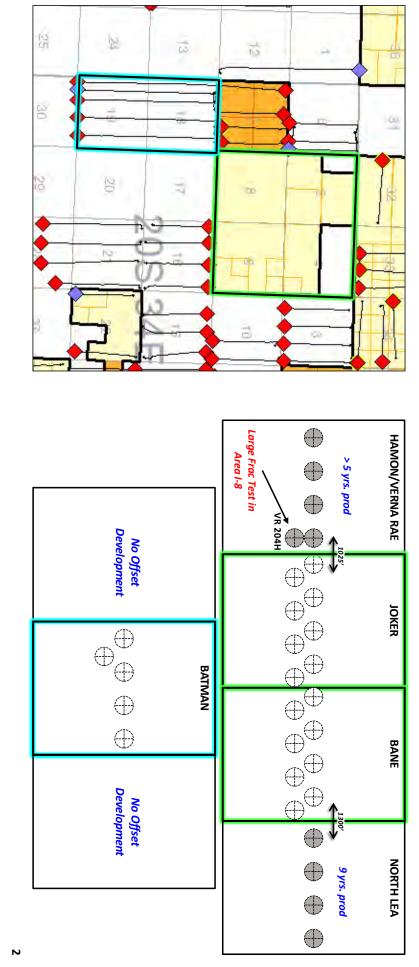


and Lower in the Bone Spring than this cartoon shows. They will not be targeting the Wolfcamp A Shale as the cartoon shows but will be drilling closer to the base of the Bone Spring, with a vertical separation of just 95 feet between their Bone Spring and Upper Wolfcamp targets. Permian Resources has misrepresented where their 3rd Sand and Upper Wolfcamp targets are located. They are targeting both higher in the Wolfcamp

C

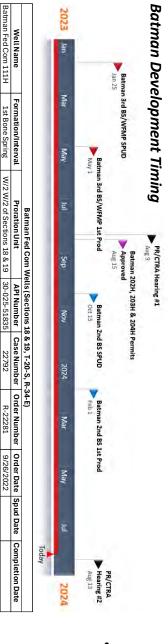
Batman Development is not equal to what PR is proposing at Joker/Bane

- Batman W/2 is drilled at 6 WPS and Batman E/2 is drilled at 4 WPS \rightarrow Joker/Bane proposal is drilled at 8 WPS
- Batman has no offset development or depletion risk \rightarrow Joker/Bane has offset developments with 5-9 years of production





PR returns to Batman and doesn't drill the WFMP XY landing



R-22284 R-22281 R-22284 R-22282 R-22283 R-22283 R-22282 R-22282 9/26/2022 9/26/2022 9/26/2022 9/26/2022 9/26/2022 9/26/2022 9/26/2022 9/26/2022 9/26/2022 9/26/2022 9/26/2022 9/26/2022 9/26/2022 9/26/2022 9/26/2022 1/27/2023 1/26/2023 10/14/2023 10/14/2023 1/24/2023 10/13/2023 10/15/2023 1/26/2023 10/25/2023 2/1/2024 2/1/2024 5/1/2023 5/27/2023 5/1/2023 2/1/2024 2/1/2024 2/1/2024 2/1/2024

3atman Fed Com 132H

atman Fed Com 174H atman Fed Com 173H atman Fed Com 172H atman Fed Com 171H atman Fed Com 128H atman Fed Com 127H atman Fed Com 126H atman Fed Com 125H atman Fed Com 124H atman Fed Com 123H

Harkey Harkey Harkey

W/2 E/2 of Sections 18 & 19 E/2 E/2 of Sections 18 & 19 W/2 W/2 of Sections 18 & 19

22795 22792

22794 22793 22792 22795 22795 22794 22794 22793 22793 22792 22792 22795

22793

atman Fed Com 134H atman Fed Com 133H atman Fed Com 131H

> 3rd Bone Spring 3rd Bone Spring 3rd Bone Spring

W/2E/2 of Sections 18 & 19 E/2 W/2 of Sections 18 & 19

30-025-50962 30-025-50967 30-025-50961 30-025-51848 30-025-51847 30-025-51846 30-025-51845 30-025-51844 30-025-51843 30-025-51842 30-025-51841 30-025-51840 30-025-51839 30-025-51886 30-025-51838 30-025-51837 30-025-51836

E/2 E/2 of Sections 18 & 19

3rd Bone Spring

tman Fed Com

3atman Fed Com 114H 3atman Fed Com 113H 3atman Fed Com 112H

atman Fed Com 122H atman Fed Com 121H

W/2 W/2 of Sections 18 & 19

W/2E/2 of Sections 18 & 19 E/2 W/2 of Sections 18 & 19

22793 22794

E/2 E/2 of Sections 18 & 19

W/2 W/2 of Sections 18 & 19

2nd Bone Spring 2nd Bone Spring 2nd Bone Spring 2nd Bone Spring

2nd Bone Spring

W/2 E/2 of Sections 18 & 19 E/2 W/2 of Sections 18 & 19 E/2 W/2 of Sections 18 & 19

W/2 E/2 of Sections 18 & 19

2nd Bone Spring 2nd Bone Spring

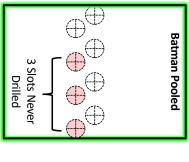
Harkey

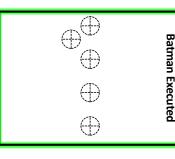
W/2 W/2 of Sections 18 & 19

E/2 E/2 of Sections 18 & 19 E/2 E/2 of Sections 18 & 19

E/2 W/2 of Sections 18 & 19

and did not drill the remaining WFMP PR returns to Batman section and XY well slots





8 WPS

EXHIBIT I-15R

Mescalero 21-28 2H Depletion From Offset wells at ½ Proposed Spacing

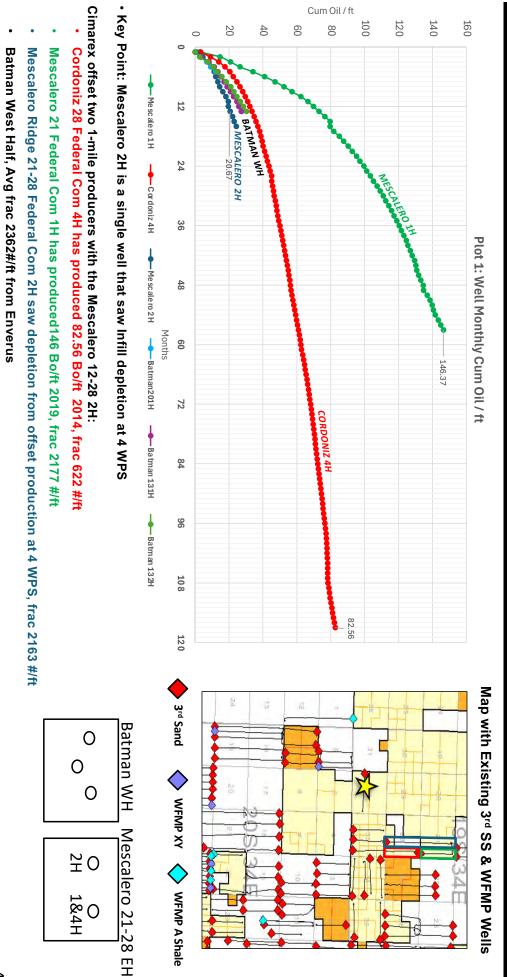
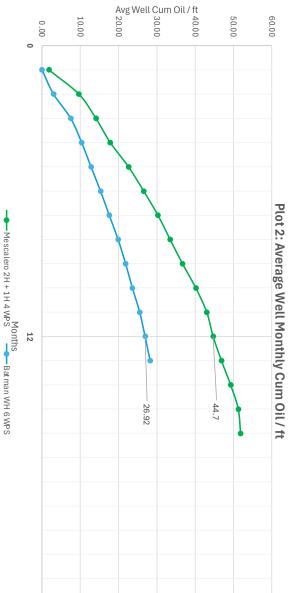


EXHIBIT I-16R

C

Mescalero Aggregate Supports 4 WPS



Mescalero 2H Infill depletion supports 4 WPS not double well count. Aggregate is comparable.

Cimarex offset 1-mile producers with the Mescalero 2H:

- Cimarex EH (Mescalero 1 mile 1H and 2 mile 2H) Modern 3rd sand completions
- 44.7 Bo/ft average well *2 wells * 9800 ft/well = 876 MBO produced first 12 months
- Batman WH (131H, 132H, 201H)
- 26.92 Bo/ft average well * 3 wells * 9800 ft/well = 791MBO first 12 months



24

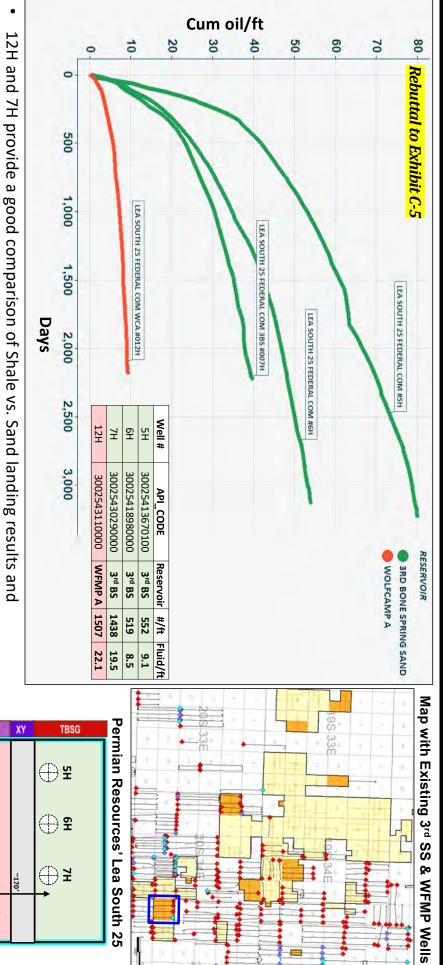
EXHIBIT I-17R

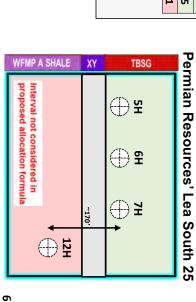
the sands that drive production

Including the Wolfcamp A negatively impacts Bone Spring correlative rights

highlight the poor productivity that occurs when landings are moved too far from

PR's Lea South 25 result (why WFMP A is not considered in allocation formula





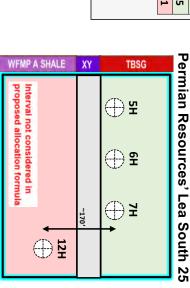


EXHIBIT I-18R